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NT-MDT launches Titanium, the first AFM with automated, multiple tip exchange

(March 26, 2014 Zelenograd, Russia) NT-MDT, a premier global provider of innovative AFM and SPM, proudly announces *Titanium*, the first AFM with a self-aligning, multiple probe cartridge for fast, automated tip exchange.

Titanium's unique Revolution Cartridge simplifies one of the most challenging steps in AFM workflow: tip exchange and alignment. Revolution holds 38 tips. As each new probe moves into position, Titanium automatically centers and aligns the probe and laser, dramatically cutting downtime for tip exchange as well as opening AFM to less sophisticated users and more routine applications.

Real-time detection of cantilever deflection allows Titanium to collect topographic, mechanical and electrical properties in a single pass, with high quality and spatial resolution. Its robust, stable engineering guarantee exceptionally low drift (0.2nm/min) and low noise level (25fm/ $\sqrt{\text{Hz}}$).

Titanium also offers the new HybriD Mode™ (HD-AFM™ Mode), a new high resolution modality especially well-suited to nanomechanical testing. Other options include a standard AFM head for traditional probes, an AFM head for liquid studies, and an STM head for scanning tunneling and spectroscopy. A nanoindenter measuring head and a heating stage are also available. These solutions provide a robust growth path and make Titanium the ideal instrument for multi-user facilities.

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NT-MDT service stands behind Titanium, offering another industry first: a triple warranty that provides free cantilevers (under regular usage) for three years.

Titanium will be on display at the ACS National Meeting, March 16-18, Dallas TX, in Booth #813.

For further information, visit <http://www.ntmdt.com/automated-afm/titanium/>

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Picture:[Titanium 38 Probe Revolution Cartridge]

Caption: NT-MDT's Titanium feature a 38-probe Revolution Cartridge for multi-probe automated cantilever replacement.

Founded in 1990, NT-MDT has become known internationally for its next-generation instruments in AFM, STM, and hybrid technologies such as AFM-Raman. Its microscopes have won many awards including multiple prestigious R&D 100 awards. Our mission is to enable researchers, engineers and developers to conduct nanoscale research by creating better solutions for nanotechnology instrumentation. Along the way, we maintain a global perspective, always taking into consideration the needs of student in the classroom, the researcher at the cutting edge in the laboratory, and the practicalities of industrial R&D.